AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (Currently Amended): A process for producing a synthetic resin foam comprising the step of reacting at least one polyol with at least one polyisocyanate compound in the presence of an organic blowing agent and a catalyst,

the blowing agent being a mixture comprising 1,1,1,3,3-pentafluorobutane (HFC-365mfc) and at least one halogen-containing compound,

wherein the organic blowing agent and the polyol mixture forms a premix which is substantially nonflammable;

wherein the at least one halogen-containing compound is nonflammable and has a relatively low thermal conductivity and a boiling point of about -90 to about 60°C,

the thermal conductivity of the halogen-containing compounds in the gaseous state is about 8 to about 30 mW/mK at about 1 atmospheric pressure, and

the halogen-containing compound is at least one member selected from the group consisting of 1,2,2-trifluoroethylene trifluoromethyl ether (CF_2=$CFOCF_3$), 1,2,2-trifluoroethylene 1,1,2,2,3,3,3-heptafluoropropyl ether (CF_2=$CFOCF_2CF_2CF_3$), perfluoropropyl epoxide ($CF_3CF(O)CF_2$), perfluoro-1-butene (CF_2=$CFCF_2CF_3$), perfluorohexenes (C_6F_{12}), perfluorononenes (C_9F_{18}), perfluorohexane (C_6F_{14}), perfluorocyclobutane (*c*-C_4F_8), iodotrifluoromethyl (CF_3I),

1,1,1,2,3,3-hexafluoropropane (CF_3CFHCF_2H), 1,1,1,3,3,3-hexafluoropropane ($CF_3CH_2CF_3$), 1,1,1,2,3,3,3-heptafluoropropane (CF_3CFHCF_3), pentafluoroethane (CF_3CF_2H), tetrafluoroethanes (CHF_2CHF_2, CF_3CFH_2), trifluoromethane (CF_3H), 1,1,2,2,3,3,4,4-octafluorobutane ($CF_2HCF_2CF_2CF_2H$), 1,1,1,2,2,3,4,5,5,5-decafluoropentane ($CF_3CF_2CFHCFHCF_3$), 2-trifluoromethyl-1,1,1,2,3,4,5,5,5-nonafluoropentane ($C_6F_{12}H_2$), 3,3,4,4,5,5,6,6,6-nonafluoro-1-hexene ($F(CF_2)_4CH=CH_2$), 2,3,3,4,4,5,5-heptafluoro-1-pentene ($CH_2CFCF_2CF_2CF_2H$), trifluoroethylene (CF_2CFH), 1,1,2,2-tetrafluoroethyl difluoromethyl ether ($CF_2HCF_2OCHF_2$), 1,1,2,2-tetrafluoroethyl methyl ether ($CF_2HCF_2OCH_3$), 2,2,2-trifluoroethyl 1,1,2,2-tetrafluoroethyl ether ($CF_3CH_2OCF_2CF_2H$), 1,1,2,3,3,3-hexafluoropropyl ~~1,1,2,3,3,3-pentafluoropropyl~~ methyl ether ($CF_3CFHCF_2OCH_3$), nonafluorobutyl methyl ether ($C_4F_9OCH_3$), 1-trifluoromethyl-1,2,2,2-tetrafluoroethyl methyl ether ($(CF_3)_2CFOCH_3$), perfluoropropyl methyl ether ($CF_3CF_2CF_2OCH_3$), 2,2,3,3,3-pentafluoropropyl difluoromethyl ether ($CF_3CF_2CH_2OCHF_2$), 1,2,3,3,4,4-hexafluorocyclobutane (*c*-$C_4F_6H_2$), 1-chloro-1,1,2,2,3,3,4,4-octafluorobutane ($CF_2ClCF_2CF_2CF_2H$, boiling point: 50°C), 1,2-dichlorohexafluorocyclobutane (-$CFClCFClCF_2CF_2$-, boiling point: 60°C), and 1,1,1,3,3,3-hexafluoropropan-2-ol ($CF_3CH(OH)CF_3$, boiling point: 59°C);

wherein the organic blowing agent further comprises at least one member selected from the group consisting of ethylene glycol compounds and amide compounds; and

wherein the ethylene glycol compound is at least one member selected from the group consisting of those of the following Formulae (I), (II) and (III):

$$C_aH_{2a+1}(OCH_2CH_2O)_bC_cH_{2c+1} \quad (I)$$

wherein a represents 1, 2, 3 or 4; b represents 1, 2 or 3; and c represents 1, 2, 3 or 4;

$$C_dH_{2d+1}CO(OCH_2CH_2O)_eCOC_fH_{2f+1} \quad (II)$$

wherein d represents 0, 1, 2, 3 or 4; e represents 1, 2 or 3; and f represents 0, 1, 2, 3 or 4; and

$$C_iH_{2i+1}CO(OCH_2CH_2O)_jC_kH_{2k+1} \quad (III)$$

wherein i represents 0, 1, 2, 3 or 4; j represents 1, 2 or 3; and k represents 1, 2, 3 or 4, and the amide compound is at least one member selected from the group consisting of those of the following Formulae (A) and (B):

$$R^1CONR^2R^3 \quad (A)$$

wherein R^1 is a hydrogen atom, a lower alkyl group or a phenyl group; and R^2 and R^3 are the same or different, and independently represent a hydrogen atom or a lower alkyl group; with the proviso that R^1 and R^2 may form a heterocyclic ring in conjunction with the carbon atom of the carbonyl group to which R^1 is bound and the nitrogen atom to which R^2 is bound; and

$$R^4R^5NCONR^6R^7 \quad (B)$$

wherein R^4, R^5, R^6 and R^7 are the same or different, and represent a hydrogen atom or a lower alkyl group, with the proviso that R^4 and R^6 may form a heterocyclic ring in conjunction with the nitrogen atom to which R^6 is bound, the nitrogen atom to which R^4 is bound and the carbon atom of the carbonyl group.

Claims 2-4: (Canceled).

Claim 5 (Previously Presented): The process according to Claim 1, wherein the halogen-containing compound has a boiling point lower than the boiling point of HFC-365mfc (40°C).

Claim 6 (Currently Amended): The process according to Claim 1, wherein the halogen-containing compound is nonflammable and has a boiling point of about 10 to about 60°C and a thermal conductivity when it is in the gaseous state of about 8 to about 20 mW/mK at about 1 atmospheric pressure, and the halogen-containing compound is at least one member selected from the group consisting of perfluorohexane (C_6F_{14}), 1,1,2,2-tetrafluoroethyl difluoromethyl ether ($CF_2HCF_2OCHF_2$), 1,1,2,2-tetrafluoroethyl methyl ether ($CF_2HCF_2OCH_3$) and 2,2,2-trifluoroethyl-1,1,2,2-tetrafluoroethyl ether ($CF_3CH_2OCF_2CF_2H$).

Claims 7-9: (Canceled).

Claim 10 (Previously Presented): The process according to Claim 1, wherein the halogen-containing compound is 1,1,1,2,3,3,3-heptafluoropropane (HFC227ea: CF_3CFHCF_3).

Claim 11 (Previously Presented): The process according to Claim 1, wherein the proportion of halogen-containing compound is about 1 to about 49 mol per 100 mol of HFC-365mfc and halogen-containing compound in total.

Claim 12 (Previously Presented): The process according to Claim 1, wherein the catalyst is a tertiary amine, an organometallic compound, or a mixture thereof.

Claim 13 (Currently Amended): An organic blowing agent for producing a synthetic resin foam, the organic blowing agent comprising 1,1,1,3,3-pentafluorobutane and at least one halogen-containing compound, ~~the blowing agent being a mixture comprising 1,1,1,3,3-pentafluorobutane and at least one halogen-containing compound;~~

wherein the organic blowing agent and a polyol mixture forms a premix which is substantially nonflammable;

wherein the at least one halogen-containing compound is nonflammable and has a relatively low thermal conductivity and a boiling point of about -90 to about 60°C,

the thermal conductivity of the halogen-containing compounds in the gaseous state is about 8 to about 30 mW/mK at about 1 atmospheric pressure, and

the halogen-containing compound is at least one member selected from the group consisting of 1,2,2-trifluoroethylene trifluoromethyl ether (CF_2=$CFOCF_3$), 1,2,2-trifluoroethylene 1,1,2,2,3,3,3-heptafluoropropyl ether (CF_2=$CFOCF_2CF_2CF_3$), perfluoropropyl epoxide ($CF_3CF(O)CF_2$), perfluoro-1-butene (CF_2=$CFCF_2CF_3$), perfluorohexenes (C_6F_{12}), perfluorononenes (C_9F_{18}), perfluorohexane (C_6F_{14}), perfluorocyclobutane (*c*-C_4F_8), iodotrifluoromethyl (CF_3I), 1,1,1,2,3,3-hexafluoropropane (CF_3CFHCF_2H), 1,1,1,3,3,3-hexafluoropropane ($CF_3CH_2CF_3$), 1,1,1,2,3,3,3-heptafluoropropane (CF_3CFHCF_3), pentafluoroethane (CF_3CF_2H), tetrafluoroethanes

(CHF_2CHF_2, CF_3CFH_2), trifluoromethane (CF_3H), 1,1,2,2,3,3,4,4-octafluorobutane ($CF_2HCF_2CF_2CF_2H$), 1,1,1,2,2,3,4,5,5,5-decafluoropentane ($CF_3CF_2CFHCFHCF_3$), 2-trifluoromethyl-1,1,1,2,3,4,5,5,5-nonafluoropentane ($C_6F_{12}H_2$), 3,3,4,4,5,5,6,6,6-nonafluoro-1-hexene ($F(CF_2)_4CH=CH_2$), 2,3,3,4,4,5,5-heptafluoro-1-pentene ($CH_2CFCF_2CF_2CF_2H$), trifluoroethylene (CF_2CFH), 1,1,2,2-tetrafluoroethyl difluoromethyl ether ($CF_2HCF_2OCHF_2$), 1,1,2,2-tetrafluoroethyl methyl ether ($CF_2HCF_2OCH_3$), 2,2,2-trifluoroethyl 1,1,2,2-tetrafluoroethyl ether ($CF_3CH_2OCF_2CF_2H$), 1,1,2,3,3,3-hexafluoropropyl ~~1,1,2,3,3,3-pentafluoropropyl~~ methyl ether ($CF_3CFHCF_2OCH_3$), nonafluorobutyl methyl ether ($C_4F_9OCH_3$), 1-trifluoromethyl-1,2,2,2-tetrafluoroethyl methyl ether ($(CF_3)_2CFOCH_3$), perfluoropropyl methyl ether ($CF_3CF_2CF_2OCH_3$), 2,2,3,3,3-pentafluoropropyl difluoromethyl ether ($CF_3CF_2CH_2OCHF_2$), 1,2,3,3,4,4-hexafluorocyclobutane (*c*-$C_4F_6H_2$), 1-chloro-1,1,2,2,3,3,4,4-octafluorobutane ($CF_2ClCF_2CF_2CF_2H$, boiling point: 50°C), 1,2-dichlorohexafluorocyclobutane (-$CFClCFClCF_2CF_2$-, boiling point: 60°C), and 1,1,1,3,3,3-hexafluoropropan-2-ol ($CF_3CH(OH)CF_3$, boiling point: 59°C);

wherein the organic blowing agent further comprises at least one member selected from the group consisting of ethylene glycol compounds and amide compounds; and

wherein the ethylene glycol compound is at least one member selected from the group consisting of those of the following Formulae (I), (II) and (III):

$$C_aH_{2a+1}(OCH_2CH_2O)_bC_cH_{2c+1} \quad (I)$$

wherein a represents 1, 2, 3 or 4; b represents 1, 2 or 3; and c represents 1, 2, 3 or 4;

$$C_dH_{2d+1}CO(OCH_2CH_2O)_eCOC_fH_{2f+1} \quad (II)$$

wherein d represents 0, 1, 2, 3 or 4; e represents 1, 2 or 3; and f represents 0, 1, 2, 3 or 4; and

$$C_iH_{2i+1}CO(OCH_2CH_2O)_jC_kH_{2k+1} \qquad (III)$$

wherein i represents 0, 1, 2, 3 or 4; j represents 1, 2 or 3; and k represents 1, 2, 3 or 4, and the amide compound is at least one member selected from the group consisting of those of the following Formulae (A) and (B):

$$R^1CONR^2R^3 \qquad (A)$$

wherein R^1 is a hydrogen atom, a lower alkyl group or a phenyl group; and R^2 and R^3 are the same or different, and independently represent a hydrogen atom or a lower alkyl group; with the proviso that R^1 and R^2 may form a heterocyclic ring in conjunction with the carbon atom of the carbonyl group to which R^1 is bound and the nitrogen atom to which R^2 is bound; and

$$R^4R^5NCONR^6R^7 \qquad (B)$$

wherein R^4, R^5, R^6 and R^7 are the same or different, and represent a hydrogen atom or a lower alkyl group, with the proviso that R^4 and R^6 may form a heterocyclic ring in conjunction with the nitrogen atom to which R^6 is bound, the nitrogen atom to which R^4 is bound and the carbon atom of the carbonyl group.

Claims 14-15: (Canceled).

Claim 16 (Previously Presented): The blowing agent according to Claim 13, wherein the halogen-containing compound is 1,1,1,2,3,3,3-heptafluoropropane (HFC227ea: CF_3CFHCF_3).

Claim 17 (Currently Amended): A premix for producing a synthetic resin foam, the premix comprising an organic blowing agent ~~1,1,1,3,3-pentafluorobutane, at least one halogen-containing compound~~ and at least one polyol,

the blowing agent being a mixture comprising 1,1,1,3,3-pentafluorobutane and at least one halogen-containing compound,

wherein the premix is substantially nonflammable;

wherein the at least one halogen-containing compound is nonflammable and has a relatively low thermal conductivity and a boiling point of about -90 to about 60°C ,

the thermal conductivity of the halogen-containing compounds in the gaseous state is about 8 to about 30 mW/mK at about 1 atmospheric pressure, and

the halogen-containing compound is at least one member selected from the group consisting of 1,2,2-trifluoroethylene trifluoromethyl ether (CF_2=$CFOCF_3$), 1,2,2-trifluoroethylene 1,1,2,2,3,3,3-heptafluoropropyl ether (CF_2=$CFOCF_2CF_2CF_3$), perfluoropropyl epoxide ($CF_3CF(O)CF_2$), perfluoro-1-butene (CF_2=$CFCF_2CF_3$), perfluorohexenes (C_6F_{12}), perfluorononenes (C_9F_{18}), perfluorohexane (C_6F_{14}), perfluorocyclobutane (*c*-C_4F_8), iodotrifluoromethyl (CF_3I), 1,1,1,2,3,3-hexafluoropropane (CF_3CFHCF_2H), 1,1,1,3,3,3-hexafluoropropane ($CF_3CH_2CF_3$), 1,1,1,2,3,3,3-heptafluoropropane (CF_3CFHCF_3), pentafluoroethane (CF_3CF_2H), tetrafluoroethanes (CHF_2CHF_2, CF_3CFH_2), trifluoromethane (CF_3H), 1,1,2,2,3,3,4,4-octafluorobutane ($CF_2HCF_2CF_2CF_2H$), 1,1,1,2,2,3,4,5,5,5-decafluoropentane ($CF_3CF_2CFHCFHCF_3$), 2-

trifluoromethyl-1,1,1,2,3,4,5,5,5-nonafluoropentane ($C_6F_{12}H_2$), 3,3,4,4,5,5,6,6,6-nonafluoro-1-hexene ($F(CF_2)_4CH=CH_2$), 2,3,3,4,4,5,5-heptafluoro-1-pentene ($CH_2CFCF_2CF_2CF_2H$), trifluoroethylene (CF_2CFH), 1,1,2,2-tetrafluoroethyl difluoromethyl ether ($CF_2HCF_2OCHF_2$), 1,1,2,2-tetrafluoroethyl methyl ether ($CF_2HCF_2OCH_3$), 2,2,2-trifluoroethyl 1,1,2,2-tetrafluoroethyl ether ($CF_3CH_2OCF_2CF_2H$), 1,1,2,3,3,3-hexafluoropropyl ~~1,1,2,3,3,3-pentafluoropropyl~~ methyl ether ($CF_3CFHCF_2OCH_3$), nonafluorobutyl methyl ether ($C_4F_9OCH_3$), 1-trifluoromethyl-1,2,2,2-tetrafluoroethyl methyl ether ($(CF_3)_2CFOCH_3$), perfluoropropyl methyl ether ($CF_3CF_2CF_2OCH_3$), 2,2,3,3,3-pentafluoropropyl difluoromethyl ether ($CF_3CF_2CH_2OCHF_2$), 1,2,3,3,4,4-hexafluorocyclobutane (*c*-$C_4F_6H_2$), 1-chloro-1,1,2,2,3,3,4,4-octafluorobutane ($CF_2ClCF_2CF_2CF_2H$, boiling point: 50°C), 1,2-dichlorohexafluorocyclobutane (-$CFClCFClCF_2CF_2$-, boiling point: 60°C), and 1,1,1,3,3,3-hexafluoropropan-2-ol ($CF_3CH(OH)CF_3$, boiling point: 59°C);

wherein the organic blowing agent further comprises at least one member selected from the group consisting of ethylene glycol compounds and amide compounds; and

wherein the ethylene glycol compound is at least one member selected from the group consisting of those of the following Formulae (I), (II) and (III):

$$C_aH_{2a+1}(OCH_2CH_2O)_bC_cH_{2c+1} \qquad (I)$$

wherein a represents 1, 2, 3 or 4; b represents 1, 2 or 3; and c represents 1, 2, 3 or 4;

$$C_dH_{2d+1}CO(OCH_2CH_2O)_eCOC_fH_{2f+1} \quad (II)$$

wherein d represents 0, 1, 2, 3 or 4; e represents 1, 2 or 3; and f represents 0, 1, 2, 3 or 4; and

$$C_iH_{2i+1}CO(OCH_2CH_2O)_jC_kH_{2k+1} \qquad (III)$$

wherein i represents 0, 1, 2, 3 or 4; j represents 1, 2 or 3; and k represents 1, 2, 3 or 4, and the amide compound is at least one member selected from the group consisting of those of the following Formulae (A) and (B):

$R^1CONR^2R^3$ (A)

wherein R^1 is a hydrogen atom, a lower alkyl group or a phenyl group; and R^2 and R^3 are the same or different, and independently represent a hydrogen atom or a lower alkyl group; with the proviso that R^1 and R^2 may form a heterocyclic ring in conjunction with the carbon atom of the carbonyl group to which R^1 is bound and the nitrogen atom to which R^2 is bound; and

$R^4R^5NCONR^6R^7$ (B)

wherein R^4, R^5, R^6 and R^7 are the same or different, and represent a hydrogen atom or a lower alkyl group, with the proviso that R^4 and R^6 may form a heterocyclic ring in conjunction with the nitrogen atom to which R^6 is bound, the nitrogen atom to which R^4 is bound and the carbon atom of the carbonyl group.

Claims 18-19: (Canceled).

Claim 20 (Previously Presented): The premix according to Claim 17, wherein the halogen-containing compound is 1,1,1,2,3,3,3-heptafluoropropane (HFC227ea: CF_3CFHCF_3).

Claim 21: (Canceled).